| -  | 1  |          |          |            |          |          |          |          |               |          |           |            |            | application/Control No. |              |        |              |           |              |                |           |              |         | Reexamination |                |                 |              |        |              |              |          |          |           |  |
|----|--|----------|----------|------------|----------|----------|----------|----------|---------------|----------|-----------|------------|------------|-------------------------|--------------|--------|--------------|-----------|--------------|----------------|-----------|--------------|---------|---------------|----------------|-----------------|--------------|--------|--------------|--------------|----------|----------|-----------|--|
|    | # (##101 ###) ###   100   ####   100   100   100   100   100   100   100   100   100   100   100   100   100 |          |          |            |          |          |          |          |               |          |           |            |            | 10/751,116              |              |        |              |           |              |                |           |              |         |               | OHTSUBO ET AL. |                 |              |        |              |              |          |          |           |  |
|    |  |          |          |            |          |          |          |          |               |          |           |            |            | Examiner                |              |        |              |           |              |                |           |              |         | Art Unit      |                |                 |              |        |              |              |          |          |           |  |
|    |  |          |          |            |          |          |          |          |               |          |           |            |            | Michael A. Marcheschi   |              |        |              |           |              |                |           |              |         | 1755          |                |                 |              |        |              |              |          |          |           |  |
|    | TWO  |          |          |            |          |          |          |          |               |          |           |            |            |                         | IVII         | CIT    | acı          | Λ.        | IVI          | aic            | 1163      | CIII         |         |               | 17             | <del></del>     | _            |        |              | !_           |          |          |           |  |
|    |  |          | Γ,       |            | . • .    | - 4 -    |          | ]        |               |          |           | Thro       | oug        | h nı                    | um           | era    | 1)           | 7         | ſ            |                | N1 -      |              | Floated |               |                |                 |              | Appeal |              |              |          |          |           |  |
|    |  |          | ľ        | / Rejected |          |          |          |          | _             | ľ        | (         | Cancelled  |            |                         |              |        |              |           | N NON        |                | n-E       | -Elected     |         |               | A              |                 | Αţ           | pe     | al           |              |          |          |           |  |
|    |  |          | =        | Δ          | Allowed  |          |          |          |               | ÷        |           |            | Restricted |                         |              |        |              | Ī         | 1            | Interferen     |           |              | 20      |               | 0              | Objected        |              |        |              |              |          |          |           |  |
|    |  |          |          | L          |          |          |          |          |               | Ŀ        | <u> </u>  |            |            |                         |              |        |              |           |              | <u>'</u>       |           |              |         | 100           |                |                 |              |        |              | .eu          |          |          |           |  |
| ĺ  | Cla  | aim      | Γ        |            |          |          | Date     |          |               |          | $\neg$    | Claim      |            |                         |              | Date   |              |           |              |                |           | ו ר          | Ck      | aim           | _              | D               |              |        | te           |              |          | $\neg$   |           |  |
|    |  |          | 25       |            |          |          |          |          |               | П        |           | $\neg_{I}$ | $\neg$     |                         | T            |        |              | Ť         | Т            |                |           | 1            |         |               | П              |                 |              |        |              | Г            |          | $\Box$   |           |  |
|    | Final  | Original | 11/15/05 |            |          |          |          |          |               |          |           | Figs       |            | Original                |              |        |              |           |              |                |           |              |         | Final         | Original       |                 |              | 1      |              |              |          |          |           |  |
|    |  |          | =        |            |          | L        |          |          |               |          | Ш         | Ľ          |            |                         |              |        |              |           |              |                |           |              | ]       | <b>.</b>      |                |                 |              |        |              |              |          |          |           |  |
| }  |  | 2        | 2        | Ļ          |          | L        | $\vdash$ |          | -             | _        | Н         | $\vdash$   | 15         | 51                      | +            | +      | +            | +         | +            | 4              | +         | _            | -       |               | 101<br>102     | $\square$       | 4            | 1      | $\downarrow$ | 1            | _        | П        |           |  |
| ì  |  | 3        | V        |            |          |          |          |          |               | H        | Н         | $\vdash$   |            | 3                       | +            | +      | $\dagger$    | +         | +            | +              | +         | +            | 1       |               | 103            | $\vdash$        | $\dashv$     | +      | +            | ╁            |          | Н        |           |  |
| ļ  |  | 4        | /        |            |          |          |          |          |               |          |           |            | 7          | 54                      | 1            | 1      | 1            |           | $\perp$      |                |           | $\downarrow$ | 1       |               | 104            |                 | 丰            |        | T            | I            |          |          |           |  |
| }  |  | 5<br>6   | /        | _          | Н        | L        | H        | -        | <u> </u>      | -        | Н         | $\vdash$   |            | 55<br>56                | +            | +      | +            | +         | +            | +              | +         | -            | -       |               | 105<br>106     | $\vdash \vdash$ | +            | +      | ╀            | ╀            | ╁        | $\vdash$ | $\dashv$  |  |
| l  |  | 7        | 7        | •          |          |          |          |          |               |          |           |            |            | 7                       | $\top$       | +      | $^{\dagger}$ | $\dagger$ | $\pm$        |                | $\dagger$ | T            | 1       |               | 107            | $\vdash$        | 十            | $\top$ | +            | +            | 1        | H        | $\dashv$  |  |
|    |  | 8        | 7        | М          |          |          |          | _        |               |          |           | _          |            | 8                       | 4            | 4      | Ţ            | Ŧ         | $\top$       | $\blacksquare$ | $\perp$   | $\bot$       | ]       |               | 108            | П               | 1            |        |              |              |          |          | $\Box$    |  |
|    |  | 10       | ۲        |            | Н        | _        | Н        | ┝        | $\vdash$      | $\vdash$ | Н         | $\vdash$   |            | 9                       | +            | +      | +            | +         | +            | +              | ╁         | ╁            | - 1     |               | 109<br>110     | $\vdash$        |              | +      | ╁            | ╁            | ┝        | Н        | $\dashv$  |  |
|    |  | 11       | Z        |            |          |          |          |          |               |          |           |            | 1          | 31                      |              |        |              |           |              |                | $\perp$   |              | ]       |               | 111            |                 |              | 土      | İ            | İ            |          |          |           |  |
|    |  | 12<br>13 | 4        |            | Н        |          |          | L        | ļ             |          | Н         |            |            | 3<br>3                  | 4            | +      | +            | +         | +            | +              | +         | +            | ┨┃      |               | 112<br>113     | $\sqcup$        | 4            | $\bot$ | $\perp$      | 1            | _        | Н        | _         |  |
| į  |  | 14       | V        |            |          |          | Н        | _        |               |          | Н         | -          |            | 34                      | $^{+}$       | +      | +            | +         | ╅            | +              | +         | $\dagger$    | ┨┃      |               | 114            | Н               | +            | +      | ╁            | ╁            | $\vdash$ | H        | $\dashv$  |  |
| ĺ  |  | 15       | 2        |            |          |          |          |          |               |          |           |            | E          | 55                      | 1            | 1      | 1            | 1         | 1            | $\perp$        |           | 1            | ]       |               | 115            |                 |              |        |              |              |          |          |           |  |
|    | _  | 16<br>17 |          | 1          | Н        | _        |          |          | H             | -        | H         | $\vdash$   | 16         | 66<br>7                 | +            | +      | +            | +         | +            | +              | +         | ╀            | ┨╏      |               | 116<br>117     | $\vdash$        | +            | +      | +-           | ╁            | ⊢        | Н        |           |  |
| -  | ==   | 18       |          | =          |          |          |          |          |               |          |           |            | E          | 8                       | _            | 1      | t            | $\perp$   |              |                | $\pm$     | $\dagger$    | 1       |               | 118            |                 | $\pm$        | $\top$ | $\dagger$    | T            | $\vdash$ | H        | $\exists$ |  |
| -  |  | 19<br>20 |          |            |          |          |          |          |               |          |           |            |            | 9                       | $\perp$      | 1      | $\bot$       | 1         | +            | _              | $\perp$   | Ļ            | 7       |               | 119            | $\Box$          | $\perp$      | $\top$ | F            | L            |          |          |           |  |
|    |  | 21       |          |            |          |          | Н        |          | Н             | $\vdash$ | H         | -          |            | 1                       | +            | +      | +            | +         | +            | +              | ╁         | ╁            | ┨╏      |               | 120<br>121     | $\vdash$        | +            | ╁      | ╁            | ╁            | ┝        | $\vdash$ |           |  |
|    |  | 22       | 4        |            |          |          |          |          |               |          |           |            | 7          | 2                       |              | $\bot$ |              | 1         | 1            |                | 1         | 上            | 1       |               | 122            |                 | $\perp$      | 丰      |              |              |          |          |           |  |
| ŀ  |  | 23<br>24 | U        | _          |          |          | Н        | _        | H             |          | Н         | -          |            | '3<br>'4                | $\dashv$     | +      | +            | ╀         | +            | +              | ╀         | ╀            | ┨╏      |               | 123<br>124     | Н               | +            | +      | +            | ╀            |          | Н        |           |  |
| t  |  | 25       | 0        |            |          |          |          |          |               | -        | H         |            | 7          | 5                       | $\dagger$    | +      | 十            | $\dagger$ | $\dagger$    | +              | ╁         | 十            | 1       |               | 125            | H               | +            | +      | ╁╴           | ╁            | ┢        | H        |           |  |
| 7  |  | 26       | П        |            |          |          |          |          |               |          |           |            | _          | 6                       |              | T      |              | 1         | $\downarrow$ | $\perp$        | T         | I            | ]       |               | 126            |                 |              | 1      |              |              |          | П        |           |  |
| ŀ  |  | 27<br>28 |          |            | $\vdash$ |          | Н        |          |               | Н        | Н         | -          |            | 7<br>8                  | ╁            | +      | $\dotplus$   | +         | +            | +              | ╁         | ╀            | ┨╏      |               | 127<br>128     | H               | +            | +      | +            | ╀            | -        | $\vdash$ | $\dashv$  |  |
| Ţ  |  | 29       |          |            |          |          |          |          |               |          |           |            | 7          | 9                       |              | 1      |              |           |              |                | İ         | L            | ] [     |               | 129            |                 |              |        | $\perp$      |              |          | Ħ        |           |  |
| }  |  | 30<br>31 | Н        | $\dashv$   | $\dashv$ | -        | $\dashv$ | _        | _             | _        | Н         |            |            | 0                       | +            | 4      | _            | +         | +            | +              | +         | +            | -       |               | 130            | Н               | _            | $\bot$ | 1            | L            |          | Ц        |           |  |
| ŀ  |  | 32       |          |            |          |          |          |          | Н             | H        | $\dashv$  |            |            | 2                       | Ť            | +      | +            | ╁         | +            | ╁              | +         | ╁            | 1       |               | 131<br>132     | $\vdash$        | +            | ╁      | ╁            | ╁            |          | Н        | $\dashv$  |  |
| Į. |  | 33       |          |            |          |          |          |          |               |          |           |            | 8          | 3                       |              | 1      |              |           | $\downarrow$ | 1              |           |              | ]       |               | 133            |                 |              | 丄      |              |              |          |          |           |  |
| ŀ  |  | 34<br>35 | $\dashv$ | -          | $\dashv$ | _        |          | _        | -             | Н        | Н         | -          |            | 5                       | +            | +      | -            | +         | +            | +              | +-        | +            | -       |               | 134<br>135     | $\vdash$        | +            | +-     | +            | $\vdash$     | $\vdash$ | Н        | 4         |  |
| į  |  | 36       |          |            |          |          |          |          |               |          |           |            | 8          | 6                       |              | +      | ┪            | +         | +            | $\dagger$      | +         | +            | 1       |               | 136            | $\vdash$        | +            | +      | ╁            | +            | $\vdash$ | $\dashv$ | ᅱ         |  |
|    |  | 37<br>38 |          | _          | _        | $\Box$   | $\Box$   |          |               | Ц        |           | _          |            | 7                       | 4            | 4      | Ţ            | Ŧ         | $\bot$       | -              | F         |              | ] [     |               | 137            |                 |              |        | I            |              |          |          |           |  |
| ŀ  |  | 39       |          | $\dashv$   | -        | $\dashv$ | $\dashv$ | -        |               | $\dashv$ | H         | -          |            | 9                       | +            | +      | ╁            | +-        | ╬            | +              | +         | ╁            | ┨╏      |               | 138<br>139     | $\vdash$        | -            | +      | ╀            | ╁            | $\vdash$ | $\dashv$ | 긤         |  |
| 1  |  | 40       | $\Box$   | $\Box$     | コ        |          |          |          |               |          | $\square$ |            | 9          | 0                       |              | 士      | $\downarrow$ | 1         | 丰            | 上              | 1         | 丰            | 1       |               | 140            |                 | 1            | 土      | 上            | 上            | Ц        |          |           |  |
| -  |  | 41<br>42 | $\dashv$ | $\dashv$   | $\dashv$ | -        | -        | _        | $\vdash \mid$ | $\vdash$ | $\dashv$  | -          |            | 2                       | +            | +      | +            | +         | +            | +              | +         | +            | ┨╏      |               | 141<br>142     | $\dashv$        | +            | +      | +            | <del> </del> | $\vdash$ | $\dashv$ | $\dashv$  |  |
| ŀ  |  | 43       |          |            |          |          |          |          |               |          |           |            | 9          | 3                       | 1            | 士      | 士            | $\pm$     | 士            | +              | $\dagger$ | $\pm$        | 1       |               | 143            | +               | +            | +      | +            | +            | Н        | $\dashv$ | $\dashv$  |  |
| F  | $\dashv$   | 44       | П        | 7          | 긔        | $\Box$   | $\Box$   | $\Box$   | $\Box$        | $\Box$   | $\Box$    |            | 9          | 4                       | Ţ            | Ţ      | Ţ            | Ţ         | 1            |                | T         | L            | ] [     |               | 144            | $\Box$          | $\downarrow$ | $\bot$ | 1            |              |          |          | $\exists$ |  |
| F  |  | 45<br>46 | $\dashv$ | $\dashv$   | $\dashv$ | $\dashv$ | -        | -        | -             |          | $\dashv$  | $\vdash$   |            | 5<br>6                  | +            | +      | +            | +         | ╁            | +              | ╁         | +-           | ┨╏      |               | 145<br>146     | $\dashv$        | +            | +      | +            | $\vdash$     | $\vdash$ | $\dashv$ | $\dashv$  |  |
|    |  | 47       |          | $\Box$     | コ        | コ        | コ        |          |               | $\Box$   | $\Box$    |            | 9          | 7                       | $\downarrow$ | 士      | $\perp$      | 1         | 土            | 士              | 土         | 上            | 1 t     |               | 147            |                 |              | 上      |              |              | Ħ        |          | $\exists$ |  |
| 1  |  | 48<br>49 | $\dashv$ | $\dashv$   | 4        |          | $\dashv$ | -        | $\square$     | $\sqcup$ | _         | -          |            | 9                       | -[           | 1      | 4            | 1         | $\bot$       | $\bot$         | -         | F            | 4 [     |               | 148            | $\Box$          | 7            | #      | $\perp$      | $\Box$       | П        | $\Box$   | $\Box$    |  |
| ŀ  |  | 50       | $\dashv$ | $\dashv$   | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$      | $\dashv$ | -         | -          |            | 9                       | +            | ╁      | +            | +         | ╁            | +              | +         | +            | ┨╏      |               | 149            | $\dashv$        |              | +      | +            | ┢            | Н        | $\dashv$ | $\dashv$  |  |

Application/Control No.

Applicant(s)/Patent under